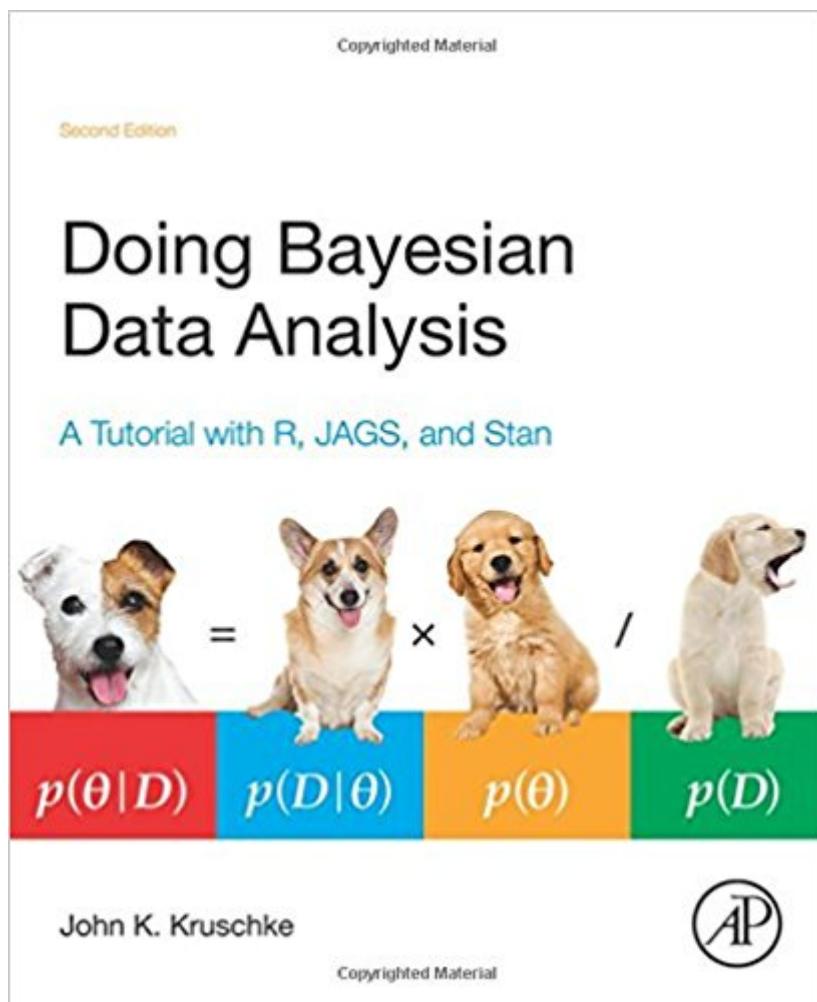


The book was found

Doing Bayesian Data Analysis, Second Edition: A Tutorial With R, JAGS, And Stan



Synopsis

Doing Bayesian Data Analysis: A Tutorial with R, JAGS, and Stan, Second Edition provides an accessible approach for conducting Bayesian data analysis, as material is explained clearly with concrete examples. Included are step-by-step instructions on how to carry out Bayesian data analyses in the popular and free software R and WinBugs, as well as new programs in JAGS and Stan. The new programs are designed to be much easier to use than the scripts in the first edition. In particular, there are now compact high-level scripts that make it easy to run the programs on your own data sets. The book is divided into three parts and begins with the basics: models, probability, Bayesâ™ rule, and the R programming language. The discussion then moves to the fundamentals applied to inferring a binomial probability, before concluding with chapters on the generalized linear model. Topics include metric-predicted variable on one or two groups; metric-predicted variable with one metric predictor; metric-predicted variable with multiple metric predictors; metric-predicted variable with one nominal predictor; and metric-predicted variable with multiple nominal predictors. The exercises found in the text have explicit purposes and guidelines for accomplishment. This book is intended for first-year graduate students or advanced undergraduates in statistics, data analysis, psychology, cognitive science, social sciences, clinical sciences, and consumer sciences in business. Accessible, including the basics of essential concepts of probability and random samplingExamples with R programming language and JAGS softwareComprehensive coverage of all scenarios addressed by non-Bayesian textbooks: t-tests, analysis of variance (ANOVA) and comparisons in ANOVA, multiple regression, and chi-square (contingency table analysis)Coverage of experiment planningR and JAGS computer programming code on websiteExercises have explicit purposes and guidelines for accomplishment Provides step-by-step instructions on how to conduct Bayesian data analyses in the popular and free software R and WinBugs

Book Information

Hardcover: 776 pages

Publisher: Academic Press; 2 edition (November 17, 2014)

Language: English

ISBN-10: 0124058884

ISBN-13: 978-0124058880

Product Dimensions: 7.8 x 1.7 x 9.3 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 55 customer reviews

Best Sellers Rank: #36,944 in Books (See Top 100 in Books) #22 in Books > Science & Math > Mathematics > Mathematical Analysis #215 in Books > Textbooks > Science & Mathematics > Mathematics > Statistics #272 in Books > Science & Math > Mathematics > Applied > Probability & Statistics

Customer Reviews

"Both textbook and practical guide, this work is an accessible account of Bayesian data analysis starting from the basicsâ [This edition is truly an expanded work and includes all new programs in JAGS and Stan designed to be easier to use than the scripts of the first edition, including when running the programs on your own data sets." --MAA Reviews,â Doing Bayesian Data Analysis, Second Edition â œfills a gaping hole in what is currently available, and will serve to create its own market” Prof. Michael Lee, U. of Cal., Irvine; pres. Society for Mathematical Psych. â œhas the potential to change the way most cognitive scientists and experimental psychologists approach the planning and analysis of their experiments" Prof. Geoffrey Iverson, U. of Cal., Irvine; past pres. Society for Mathematical Psych. â œbetter than others for reasons stylistic.... buy it -- itâ ™s truly amazinâ ™!” James L. (Jay) McClelland, Lucie Stern Prof. & Chair, Dept. of Psych., Stanford U. "the best introductory textbook on Bayesian MCMC techniques" J. of Mathematical Psych. "potential to change the methodological toolbox of a new generation of social scientists" J. of Economic Psych. "revolutionary" British J. of Mathematical and Statistical Psych. "writing for real people with real data. From the very first chapter, the engaging writing style will get readers excited about this topic" PsycCritiques

There is an explosion of interest in Bayesian statistics, primarily because recently created computational methods have finally made Bayesian analysis obtainable to a wide audience. Doing Bayesian Data Analysis, A Tutorial Introduction with R and BUGS, provides an accessible approach to Bayesian Data Analysis, as material is explained clearly with concrete examples. The book begins with the basics, including essential concepts of probability and random sampling, and gradually progresses to advanced hierarchical modeling methods for realistic data. The text delivers comprehensive coverage of all scenarios addressed by non-Bayesian textbooks- t-tests, analysis of variance (ANOVA) and comparisons in ANOVA, correlation, multiple regression, and chi-square (contingency table analysis). This book is intended for first year graduate students or advanced undergraduates. It provides a bridge between undergraduate training and modern Bayesian methods for data analysis, which is becoming the accepted research standard. Prerequisite is

knowledge of algebra and basic calculus.

Not bad. But there is always a danger when explaining an inherently mathematical process using simple language. It's actually a very hard task. One star is off because the book is too wordy at times.

The first edition is very good but the second edition is even better! I can't think of a better book to anyone learning Bayesian Analysis.

Takes a complex subject and explains it in well organized chapters to anyone with a basic understanding of statistics.

Great!

Excellent text.

My son loves this book.....

John Kruschke is my hero.

Easy read, careful explanations, good examples and illustrations, and uses just public domain/open source software. Checks all the boxes for me and my grad students. I'll be putting my 1st edition in the lab, this one stays on my desk.

[Download to continue reading...](#)

Doing Bayesian Data Analysis, Second Edition: A Tutorial with R, JAGS, and Stan
Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data)
Data Analysis: A Bayesian Tutorial
Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data Book 1)
Data Analytics: Applicable Data Analysis to Advance Any Business Using the Power of Data Driven Analytics (Big Data Analytics, Data Science, Business Intelligence Book 6)
Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis)
Big Data For Business: Your

Comprehensive Guide to Understand Data Science, Data Analytics and Data Mining to Boost More Growth and Improve Business - Data Analytics Book, Series 2 101 Facts... Stan Lee: 101 Facts About Stan Lee You Probably Never Knew (facts 101 Book 7) Data Analytics For Beginners: Your Ultimate Guide To Learn and Master Data Analysis. Get Your Business Intelligence Right â€“ Accelerate Growth and Close More Sales (Data Analytics Book Series) Bayesian Decision Analysis: Principles and Practice Bayesian Survival Analysis (Springer Series in Statistics) Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data Data Analytics and Python Programming: 2 Bundle Manuscript: Beginners Guide to Learn Data Analytics, Predictive Analytics and Data Science with Python Programming Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking Discovering Knowledge in Data: An Introduction to Data Mining (Wiley Series on Methods and Applications in Data Mining) Image Formation in Low-Voltage Scanning Electron Microscopy (SPIE Tutorial Text Vol. TT12) (Tutorial Texts in Optical Engineering) Data Analysis and Signal Processing in Chromatography, Volume 21 (Data Handling in Science and Technology) Analytics: Data Science, Data Analysis and Predictive Analytics for Business Statistics, Data Mining, and Machine Learning in Astronomy: A Practical Python Guide for the Analysis of Survey Data (Princeton Series in Modern Observational Astronomy) Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)